

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/010026

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl⁷ B29B7/80, B29C47/36, B29C45/46

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl⁷ B29B7/00-9/16, B29C47/00-47/96, B29C45/00-45/84

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Jitsuyo Shinan Koho 1926-1996 Toroku Jitsuyo Shinan Koho 1994-2004
Kokai Jitsuyo Shinan Koho 1971-2004 Jitsuyo Shinan Toroku Koho 1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 2001-88194 A (Idemitsu Petrochemical Co., Ltd.), 03 April, 2001 (03.04.01), Par. Nos. [0014], [0023], [0034], [0039]; Fig. 1 (Family: none)	<u>1, 3-8, 12,</u> <u>15-19</u> <u>9-11</u>
X	JP 8-47960 A (Idemitsu Kosan Co., Ltd.), 20 February, 1996 (20.02.96), Par. Nos. [0020], [0025]; Figs. 1, 2 (Family: none)	<u>1-8, 12-15,</u> <u>17, 18</u> <u>9-11</u>
A		

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:

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- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
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Date of the actual completion of the international search
08 September, 2004 (08.09.04)

Date of mailing of the international search report
28 September, 2004 (28.09.04)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

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INTERNATIONAL SEARCH REPORTInternational application No.
PCT/JP2004/010026**C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 3-47723 A (Idemitsu Kosan Co., Ltd.), 28 February, 1991 (28.02.91), Page 5, upper left column, line 12 to upper right column, line 7; page 7, upper left column; page 9, lower right column; Figs. 4, 6 & US 5202066 A & EP 394958 A2	<u>1-3, 7, 8,</u> <u>12-19</u> <u>9-11</u>
A	US 6528554 B1 (THE UNIVERSITY OF AKRON), 04 May, 2003 (04.05.03), Claims & WO 02/66218 A1	<u>18, 19</u>